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United States Patent [19]

Don Michael

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[54] **TREATMENT OF OBSTRUCTIONS IN BODY PASSAGES**

[76] Inventor: **T. Anthony Don Michael**, 4109 Sill Pl., Bakersfield, Calif. 93306

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Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 868,961, Apr. 16, 1992, Pat. No. 5,306,249, which is a continuation-in-part of Ser. No. 808,924, Dec. 18, 1991, Pat. No. 5,222,941, which is a division of Ser. No. 492,582, Mar. 13, 1990, Pat. No. 5,090,960, which is a continuation-in-part of Ser. No. 464,029, Jan. 12, 1990, abandoned.

[51] Int. Cl.⁶ **A61M 29/00**

[52] U.S. Cl. **604/101; 604/264; 606/192**

[58] Field of Search **604/96-103, 264, 604/280; 606/191-196**

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Primary Examiner—C. Fred Rosenbaum

Assistant Examiner—Chalin Smith

Attorney, Agent, or Firm—Spensley Horn Jubas & Lubitz

[57] ABSTRACT

A device for treating conditions causing obstructions in a body passage, composed of a catheter dimensioned to be insertable into the body passage and having a lateral wall and a distal end via which the catheter can be inserted into the body passage, the catheter being provided internally with fluid conducting passages and a fluid outlet passage which extends through the lateral wall and communicates with one of the fluid conducting passages; and first and second balloons carried by the catheter and extending outwardly from the lateral wall, the balloons communicating with respective fluid conducting passages and being disposed so that the first balloon is located between the fluid outlet passage and the distal end of the catheter, wherein one of the balloons is a high compliance volume balloon and the other of the balloons is a low compliance pressure balloon dimensioned to radially dilate the body when expanded by a fluid under pressure.

9 Claims, 2 Drawing Sheets

